

**Methodology for Writing Projects II**

Code: 101826  
ECTS Credits: 6

Degree	Type	Year	Semester
2502501 Prevention and Integral Safety and Security	OB	1	2

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

### Contact

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### Use of Languages

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

### Prerequisites

This subject doesn't have any pre-requierments

### Objectives and Contextualisation

Familiarize yourself with the types of emergencies and their normative norms at the autonomic, municipal and private level.

Assume the most common structure guidelines for security and emergency projects.

Indicate the knowledge that will be used in the practice of deepening the planning of emergencies, prevention and implantation.

Get acquainted with the means and measures of self protection.

Assume the interrelation between the planning and the activity criteria

### Competences

- Carry out analyses of preventative measures in the area of security.
- Carry out scientific thinking and critical reasoning in matters of preventions and security.
- Efficiently manage human resources.
- Evaluate the technical, social and legal impact of new scientific discoveries and new technological developments.
- Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
- Identify the resources necessary to respond to management needs for prevention and integral security.
- Plan and coordinate the resources of the three large subsystems that interact in questions of security: people, technology and infrastructures.
- Respond to problems applying knowledge to practice.
- Use the capacity for analysis and synthesis to solve problems.
- Work and learn autonomously.

### Learning Outcomes

1. Carry out scientific thinking and critical reasoning in matters of preventions and security.
2. Coordinate the resources of the three main subsystems of the prevention and integral security sector: people, technology and infrastructures.
3. Design a project applied to integral security and prevention in an organisation.
4. Design and implement recovery plans following disasters and mechanisms for contingencies.
5. Evaluate the technical, social and legal impact of new scientific discoveries and new technological developments.
6. Generate innovative and competitive proposals in research and in professional activity developing curiosity and creativity.
7. Identify the infrastructure, technology and resources necessary to respond to operations in prevention and integral security.
8. Respond to problems applying knowledge to practice.
9. Select the minimum resources for efficient risk management.
10. Use the capacity for analysis and synthesis to solve problems.
11. Work and learn autonomously.

## Content

### Unit 1.- Introduction to Planning in the field of security and emergencies

- Topic 1.- Emergency planning

- 1.- Introduction
- 2.- Plan of self-protection or emergency plan
- 3.- Pre-plan for emergencies
- 4.- Planning in emergencies
- 5.- The obligation to make a self-protection plan

### Unit 2.- Basic regulations for civil protection in Catalonia

- Topic 2.- Introduction to civil protection

- 1.- Civil protection in Catalonia: what is objectives and organization
- 2.- Civil protection actions
- 3.- Civil protection planning
- 4.- Map of civil protection of Catalonia

- Topic 3.- Basic rules of self-protection

- 1.- Statute of Autonomy and Civil Protection Law.
- 2.- Decree of self-protection of Catalonia
- 3.- Activities and centers with obligation.
- 4.- Minimum contents of the self-protection plan
- 4.- Accredited technicians
- 5.- Hermes Platform and electronic signature

- Topic 4.- Assistance teams external to a PAU

- 1.- Introduction

- 2.- Group of intervention.
- 3.- Order group.
- 4.- Healthcare group
- 5.- Logistics Group
- 6.- Other specialist groups
- 7.- Emergency communication centers

Unit 3 Basic elements for developing self-protection plans

- Topic 5.- Risk analysis

- 1.- Introduction
- 2.- Danger (danger, threat)
- 3. Vulnerability
- 4.- Resilience
- 5.- Exhibition
- 6.- Risks in a self-protection plan

- Topic 6.- Basic knowledge of fires

- 1.- Introduction
- 2.- Fire and Prevention of forest fires
- 3.- Fire fighting equipment in buildings

- Topic 7.- Calculation of internal risk

- 1.- Introduction
- 2.- Fire risk for the method of the fire load
- 3.- Calculation of the risk by the simple factor method

- Topic 8.- Technical Building Code

- 1.- Introduction
- 2.- Technicalbuilding code. Protection conditions against fires.

- Topic 9.- Action plan

- 1.- Introduction
- 2.- Scenarios, accidents or situations that can activate a PAU
- 3.- Activation criteria or phases
- 4.- Action sequence
- 5.- Integration of the PAU with higher level plans

- Topic 10.- Human teams of a PAU

- 1.- Introduction
- 2.- Identification of a group
- 3.- Functions and equipment of a PAU
- 4.- Meeting point

- Topic 11.- Simulations

- 1.- Introduction
- 2.- Objectives of the simulations
- 3.- Types of drills
- 4.- Preparation stages of a drill
- 5.- Investigation of incidents and emergencies

- Topic 12.- Basic drawing concepts

- 1.- Ladder and Ladder
- 2.- Plans
- 3.- Symbolism

## Methodology

"Methodology for the drafting of projects (II)" has a theoretical side and a practical side. The theoretical aspect is taught through master classes and through classes where examples and exercises are put together that are solved jointly in the classroom. The practical side of the subject is developed through exercises and work. The exercises involve solving specific situations that can be done in the classroom or outside the classroom. The works are carried out outside the classroom and individually, although in class face doubts are solved and guided towards its resolution.

The subject has a MOODLE page on the Virtual Campus where you will find the materials of the subject, news and indications of the subject and the system for the delivery of work, among other applications.

To access it, you must enter the Virtual Campus of the UAB, whose address is: <https://cv.uab.cat/>. You must enter with the University Identification Number (NIU) and the passphrase that is provided during the enrollment process.

The Virtual Campus is also the main communication tool for students with the teacher, both at the level of doubts and of communication of possible problems in the development of the subject. When a student wishes to contact a teacher, they will use Moodle classroom messaging preferably using email. Tutorials with the teaching staff will be arranged by email.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Activities

Title	Hours	ECTS	Learning Outcomes
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Type: Directed

Evaluation	2	0.08	
clas master	40	1.6	1, 8, 6, 9, 10, 5
Type: Supervised			
Support tutorials	12	0.48	1, 4, 3, 7, 10, 5
Type: Autonomous			
jobs, exercises and studies	96	3.84	2, 1, 4, 3, 8, 6, 7, 9, 11, 10, 5

## Assessment

The evaluation is continuous and involves the completion of different exams, exercises and assignments that allow the student to demonstrate their knowledge and skills. The 10 points are obtained from the following works, exercises and exams:

- Exercise of emergency planning concepts. (2.5 points)  
It will be necessary to demonstrate that the theory of emergency planning is understood.
- Risk analysis work (2.5 points)  
Real data will be provided so that the student can begin to calculate the risk.
- Work on the Technical Building Code where it must be demonstrated that the student knows the basic requirements.

### d) Exam

The exam is compulsory to pass the course. The exam will be done in two parts. The first exam will be practical with a value of 1 point. The second exam will be theoretical with a value of 1 point. In this exam, the student must demonstrate that they have understood the theory of emergency planning and risk analysis. In order to add the different scores, it is essential to meet the following criteria: have a grade equivalent to 5 out of 10 in the theoretical and practical exams. Have a grade equivalent to 5 out of 10 in the different works and exercises. If the subject is not passed in accordance with the aforementioned criteria, the student will have to retake the exam. To participate in the recovery of students, they must have been previously approved in the subject. Students who need to change an assessment date must submit the request to the teacher in charge of the subject. Without prejudice to other disciplinary measures deemed appropriate, an exam may be written and / or oral at the discretion of the teacher.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Exam	20%	0	0	8
Exercising planning and emergency concepts	25%	0	0	4, 6, 7
Work risk analysis	25%	0	0	2, 1, 4, 8, 6, 7, 9, 11, 10
work on the technical code of the building	30%	0	0	1, 3, 8, 7, 9, 11, 10, 5

## **Bibliography**

Aznar Carrasco, A. (1990). Fire protection Analysis and Design of systems. Madrid: Editorial Alcion.

Beck, U. (2006). The society of risk: towards a new modernity. Barcelona: Ediciones Paidós.

Search and validation of parameters of the fire load in industrial establishments. Annex Tables published by IDES.

Contelles Díez, E.A. (2014). Emergencies: basic applications for the development of a self-protection manual. Madrid: Ediciones Marcombo.

AAVV (1995). Basic Firefighter Manual. Vitoria: Central publications service of the Basque Government.

### State legislation

- Law 17/2015, of July 9, of the National Civil Protection System
- Law 31/1995, of November 8, on the prevention of occupational hazards
- Royal Decree 314/2006, of March 17, which approves the Technical Building Code

### Catalan legislation

- Law 4/1997 of 20 May, on civil protection in Catalonia
- Decree 30/2015, of March 3, which approves the catalog of activities and centers obliged to adopt measures of self-protection and fixes the content of these measures

### Web links

- Page on self-protection plans of the Generalitat of Catalonia
- Web of the civil protection map of Catalonia

## **Software**

Microsoft office and Teams